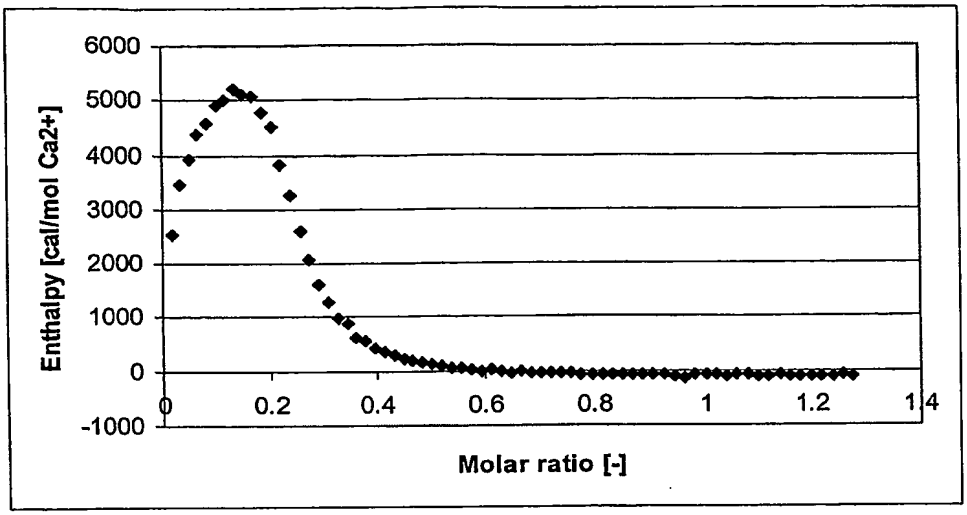
Figure 1

1a




1b

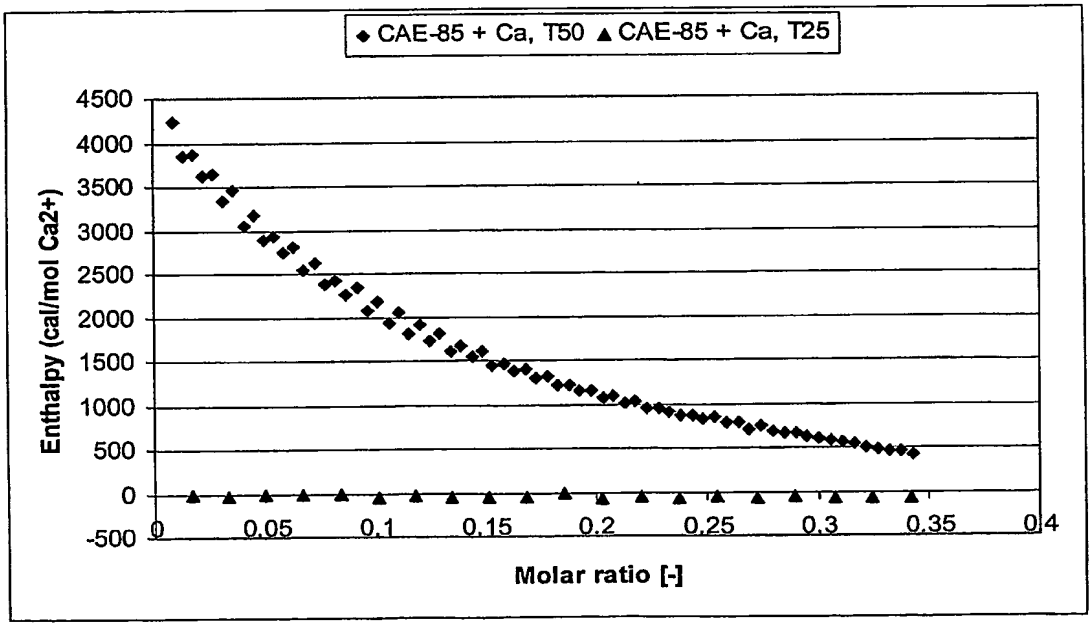
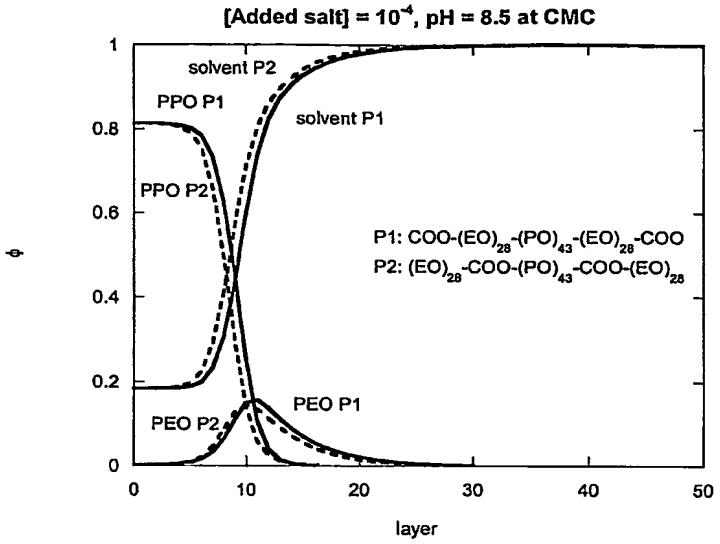
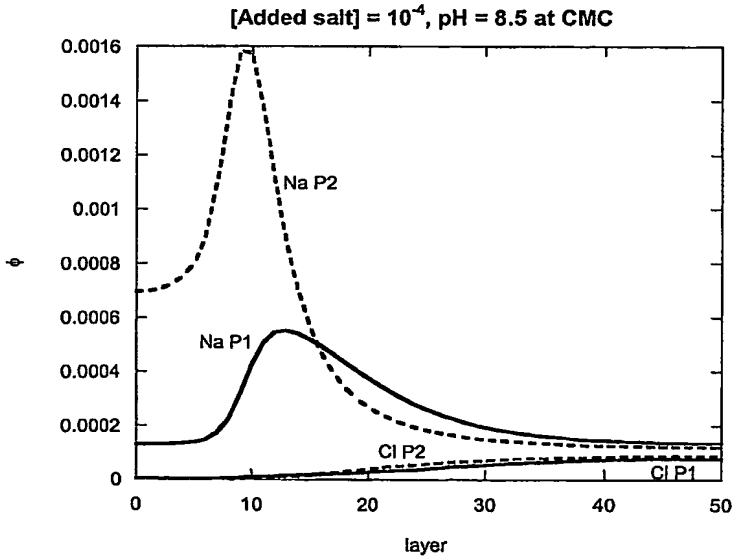


Figure 2


[Added salt] = 10^-4, pH = 8.5 at CMC
solvent P2
PPO P1
solvent P1
PPO P2
P1: COO-(EO)28-(PO)43-(EO)28-COO
P2: (EO)28-COO-(PO)43-COO-(EO)28
PEO P1
PEO P2
φ
layer


[Added salt] = 10^-4, pH = 8.5 at CMC
Na P2
Na P1
Cl P2
Cl P1
φ
layer

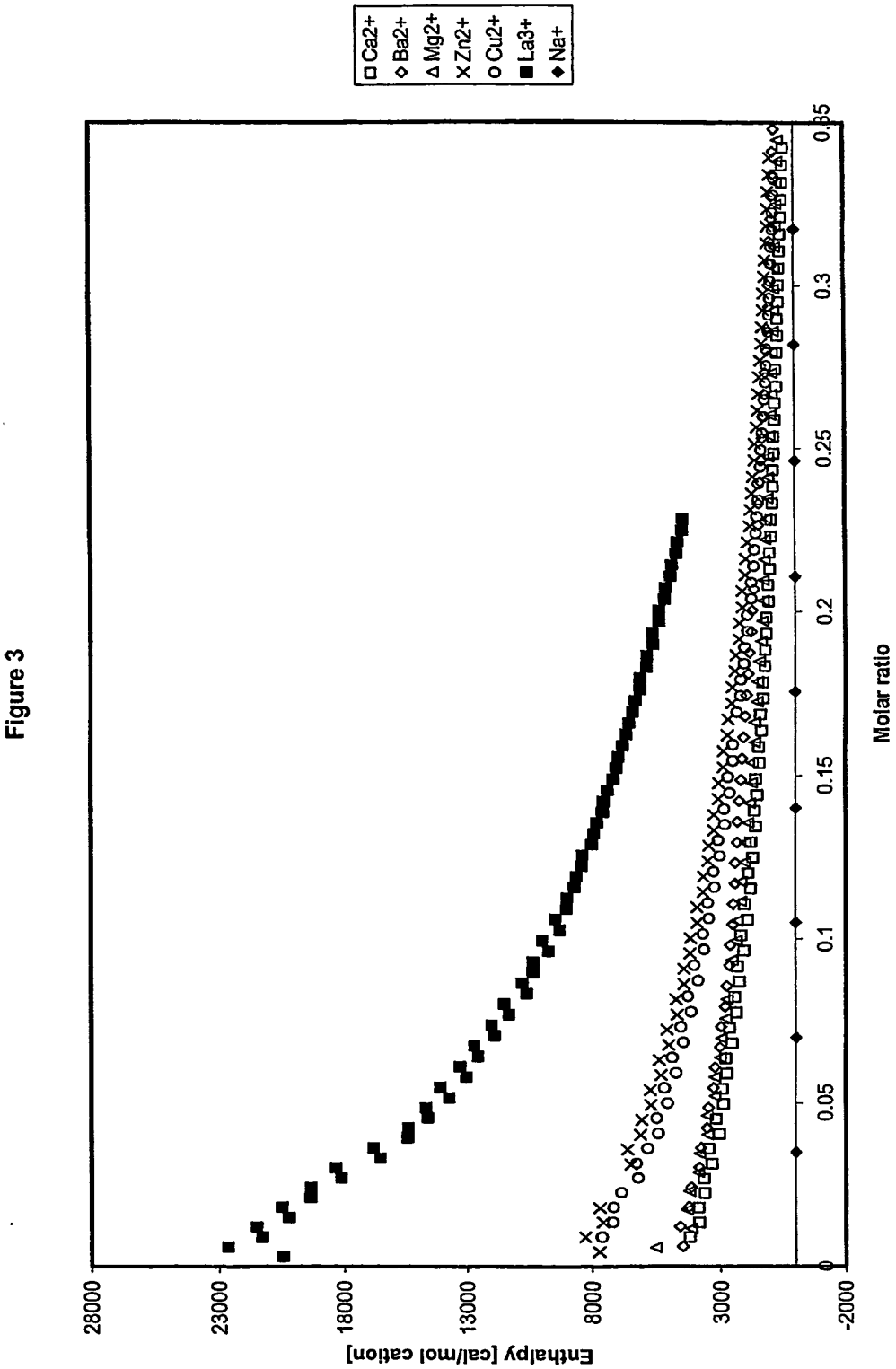

Ca2+
Ba2+
Mg2+
Zn2+
Cu2+
La3+
Na+
Enthalpy [cal/mol cation]
28000
23000
18000
13000
8000
3000
-2000
Molar ratio
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35

Figure 3

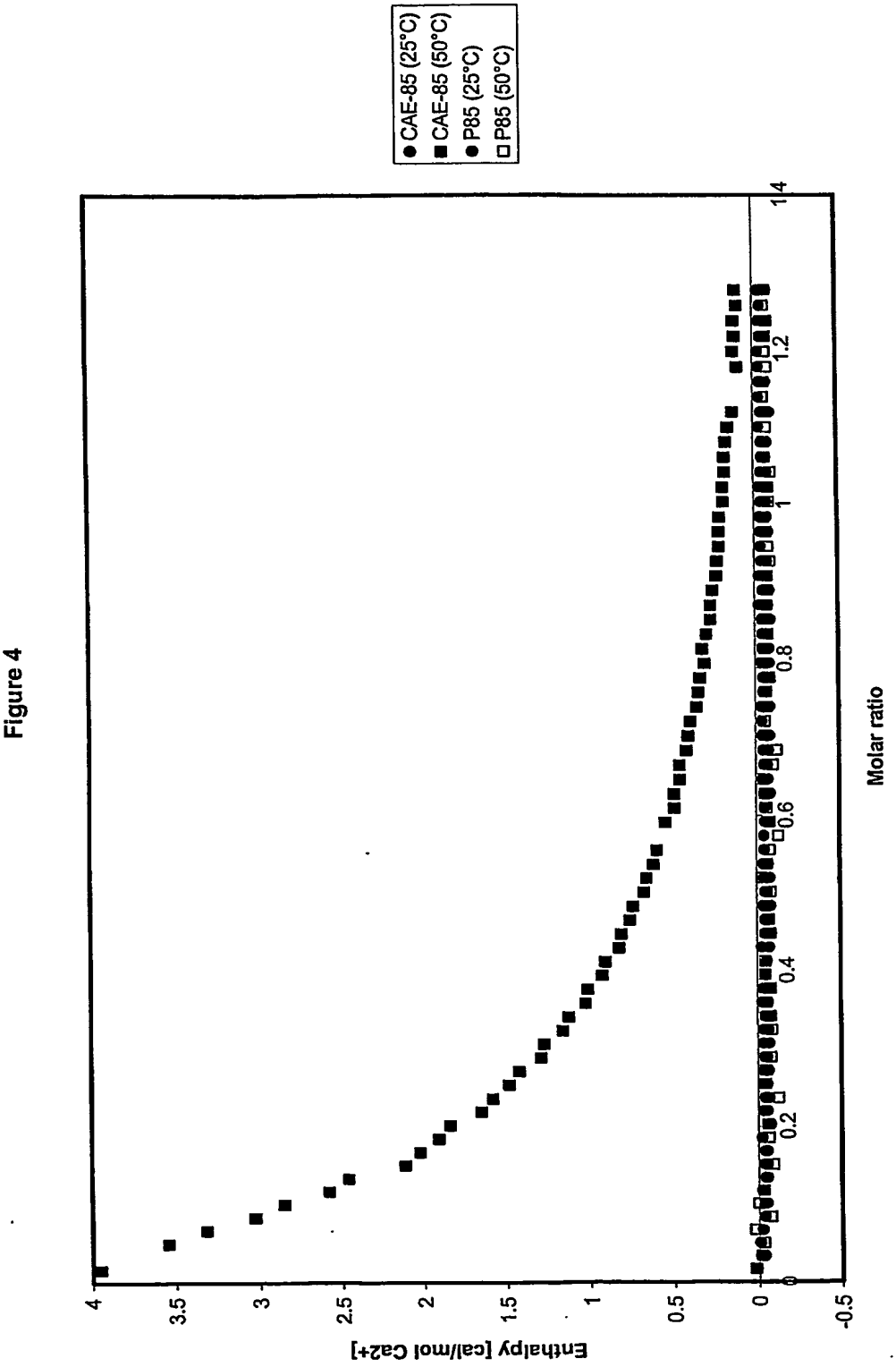

CAE-85 (25°C)
CAE-85 (50°C)
P85 (25°C)
P85 (50°C)
Enthalpy [cal/mol Ca2+]
Molar ratio
4
3.5
3
2.5
2
1.5
1
0.5
0
-0.5
0
0.2
0.4
0.6
0.8
1
1.2
1.4

Figure 4